

Appendix DO NOT ENTER /PR/

Main request

1. A method for selecting and testing for agents, the agents being selected from drugs, potential drugs, food, food additives, toxins, potential toxins and microbes, or components from physiological or pathological processes, where said agents or components demonstrate specific inhibition or specific stimulation of clonal growth in sparsely distributes cells comprising:

a) an *in vitro* clonal test for studying the influence of said agent(s) or component(s) on cloning, wherein said clonal test comprises:
i) seeding of cells in agar;
ii) preparing and incubation of agar gels with cell density gradient;
iii) incubating in suitable temperature and atmosphere ;
iv) following up on cell growth, formation of clones and the degree of neutralization of the effect of said agent(s) or component(s) in areas of high cell collocation.

b) selecting agent(s) or component(s) from the testing in a) and;
i) transplanting tumour cell(s) to a test animal;
ii) adding selected agent(s) or component(s) to the test animal; and
iii) following the effect of the selected agent(s) or component(s) on the formation of metastases and local tumors in the test animal.

2. The method according to claim 1, wherein the agent is a drug, food, food additive or toxin.

3. The method according to anyone of claim 1 and/or 2, wherein the said agent comprises 4-OH-OPB and its analogues.

4. The method according to anyone of claims 1-3, wherein the method is performed by using fluid medium.

5. The method according to anyone of claims 1-4, wherein said cells comprise:
malignant cells, normal cells, cell lines, transformed cells and cells from malignant disease, or cells from the immune system.

6. The method according to anyone of claims 1-5, said cells being a cell line comprising BHK21/c13 cells or BHK21/c13 cells transformed with polyoma virus.

7. The method according to anyone of claims 1-6, wherein clonal growth of normal cells in agar medium need to be stimulated by serum with or without serum extenders in combination with insulin, insulin like growth factors, cytokines, conditioned medium or a combination of these.

8. The method according to claim 1, wherein said tumour cells that are transplanted comprise Ehrlich carcinoma cells.

9. The method according to anyone of the claims 1-8, wherein said method detects agents or components that cause an increased number of clones and/or facilitate the growth and migration of metastases and/or primary tumours.

10. Use of the agent detected by the method according to anyone of claims

1-9, wherein said agent is the clonal mitotic inhibitor 4-OH-OPB or one or more of its analogs with an effect comparable to 4-OH-OPB for preparing a pharmaceutical preparation for the treatment or prophylaxis of clonal growth in cancer, psoriasis, carcinogenesis from clonal growth of single cells, development of arteriosclerosis, prophylaxis of carcinogenetic, arteriosclerotic, or primary immunological processes, said cancer is not malignancies derived from CD4 lymphocytes, HIV related Kaposi sarcoma, Sezary syndrome, mycosis fungoides or T cell lymphoma.